

## Schena, Cristeen

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**From:** Conroy, David  
**Sent:** Monday, November 25, 2013 10:41 AM  
**To:** 'Underhill, Jeff'  
**Subject:** RE: 1999 Eliot Maine SO2 Monitoring Data

Jeff –

One of the maps was missing. Can you resend.

David Conroy

Tel: 617-918-1661  
Fax: 617-918-0661

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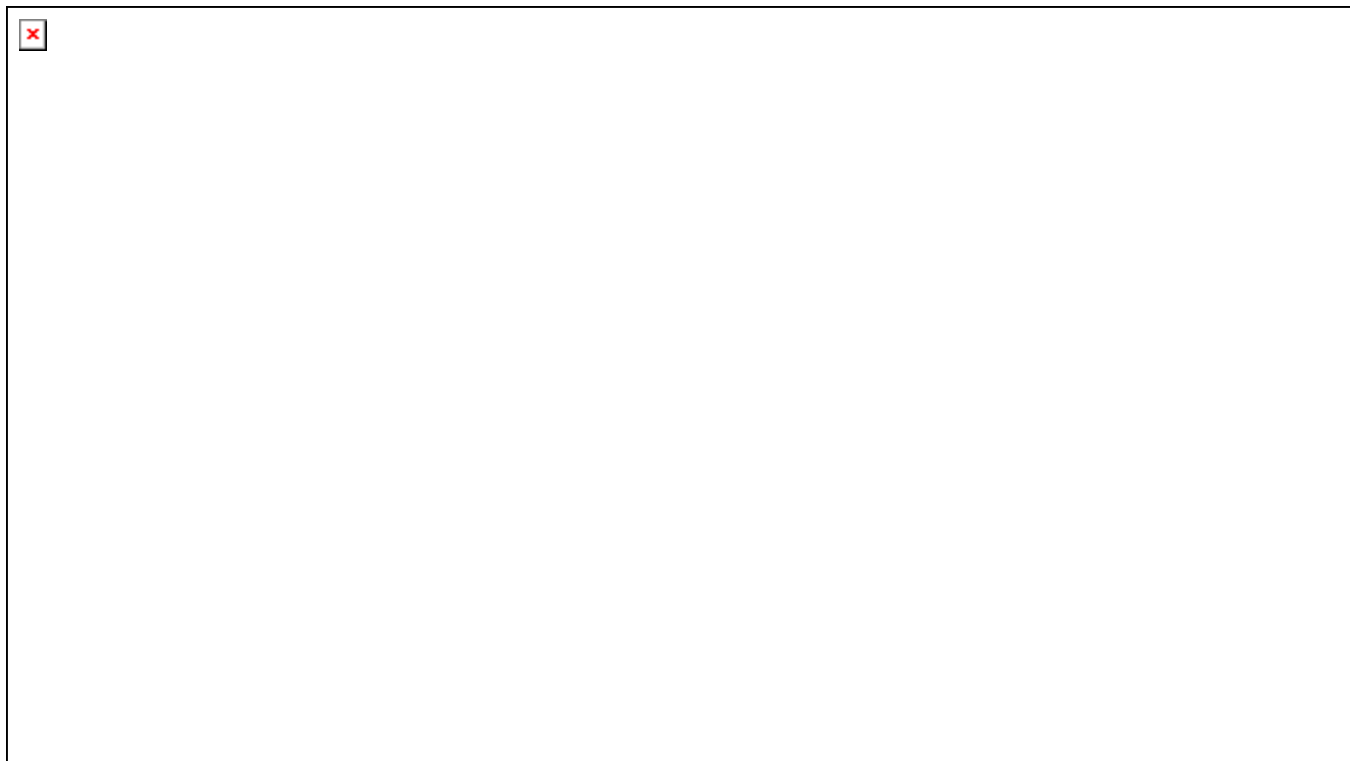
**From:** Underhill, Jeff [<mailto:Jeffrey.Underhill@des.nh.gov>]  
**Sent:** Monday, November 18, 2013 11:53 AM  
**To:** Conroy, David  
**Cc:** Wright, Craig  
**Subject:** RE: 1999 Eliot Maine SO2 Monitoring Data

Thanks for the plots Dave. I was able to replicate your work when doing forward trajectories, but got differing results when doing back trajectories from the monitoring locations (starting at 5m). I also noticed that the met data is based on an 80KM grid and appears to use only Pease met data in the area. Pease wind data is flagged for hours 13 and 14 local time so the model must be interpolating from other locations. Our met data at Vaughn street showed a seabreeze coming up the river that is not reflected in the trajectories (hours 13 through 5 (+1) utm).

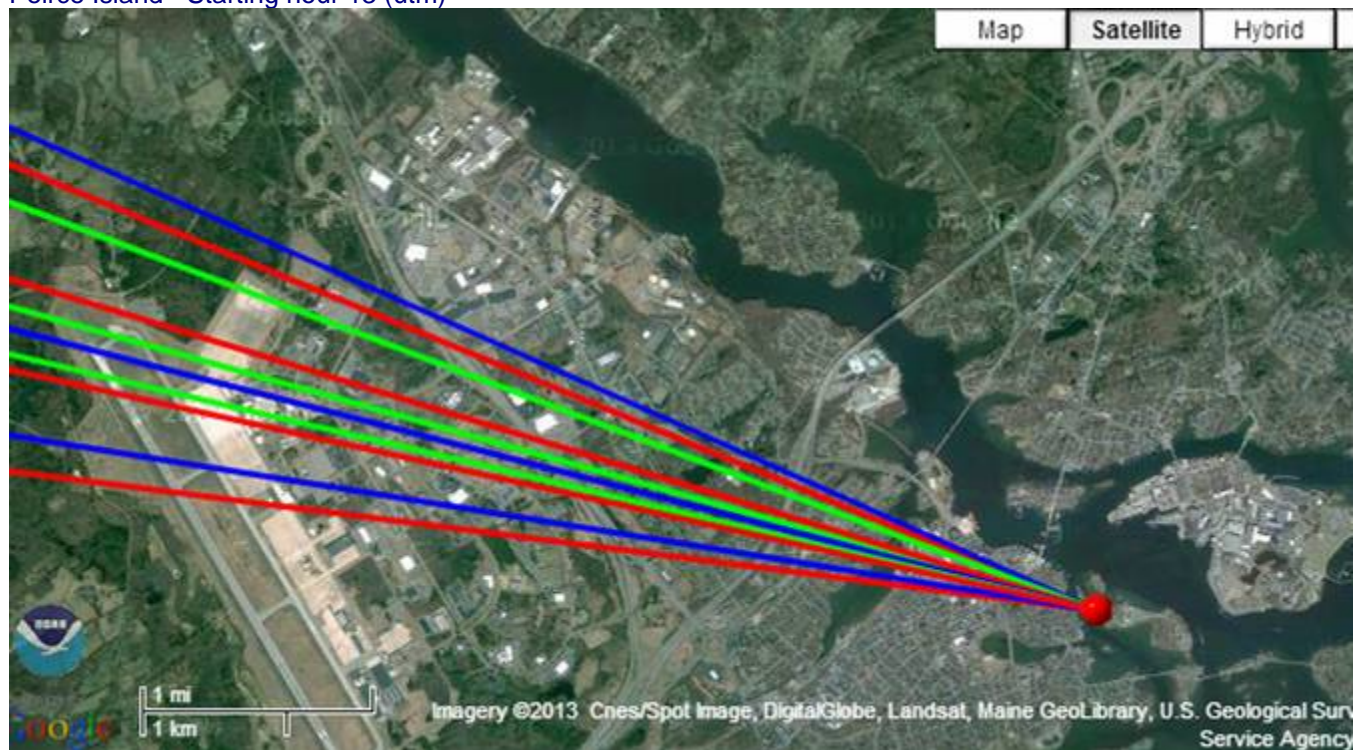
I would agree that it is possible that there may be a connection between the power plant and the peak numbers, but thus far it is difficult to find data that consistently confirms it.

Jeff

Eliot - Starting hour 17 (utm)



Peirce Island - Starting hour 13 (utm)



-----Original Message---**From:** Conroy, David [<mailto:Conroy.Dave@epa.gov>]  
**Sent:** Wednesday, November 13, 2013 2:52 PM  
**To:** Underhill, Jeff  
**Cc:** Wright, Craig  
**Subject:** RE: 1999 Eliot Maine SO2 Monitoring Data

Jeff/Craig-

Thanks for sending me the report.

Using the HYSPLIT web site, we ran some HYSPLIT trajectories and dispersion runs for the afternoon of August 23, 1999, the period during which the peak hourly SO<sub>2</sub> average of 128 ppb was recorded. The trajectories from the archived meteorology would seem to indicate the potential for contribution from Schiller and/or Newington to the monitor in Eliot on that day.

In addition, it would also appear that Schiller and Newington were contributing to the exceedance recorded during the morning of August 23, 1999 at the old Vaughan Street SO<sub>2</sub> monitor.

See attached slides.

David Conroy

Tel: 617-918-1661  
Fax: 617-918-0661

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**From:** Underhill, Jeff [<mailto:Jeffrey.Underhill@des.nh.gov>]  
**Sent:** Tuesday, October 22, 2013 3:20 PM  
**To:** Conroy, David  
**Subject:** 1999 Eliot Maine SO2 Monitoring Data

Dave,  
See attached for copies of the original report and recent SO2 analysis. Let me know if you have any questions.  
Jeff